

RECEIVED

MAY 1 5 2008

Department of Environmental Quality State Air Program

April 12, 2008

Martin Bauer, Administrator Air Quality Division Idaho Department of Environmental Quality 1410 North Hilton Boise, Idaho 83706

Subject:

Submittal of Permit to Construct Application

Clay Peak Municipal Solid Waste Landfill, Existing PTC No. P-020034

Dear Mr. Bauer:

Attached for DEQ review and process is a Permit to Construct (PTC) Application for three additional landfill gas flares for Landfill Cell No. I at the Clay Peak Municipal Solid Waste Landfill. The emission rates and flare performance data were taken from previous air quality permit applications and it is our understanding that Kevin Schilling, DEQ Stationary Source Modeling Coordinator, will provide air quality modeling to complete the PTC Application. See the attached electronic mail from Mr. Schilling regarding air quality modeling and result reporting. Note that Payette County would like to review the modeling results before they become final and are incorporated into a draft permit document.

Also enclosed is a \$2,000 payment for regulatory fees to include \$1,000 for the application submittal fee and \$1,000 for application processing fee for an emission increase of approximately 0.97 tons emission per year from the three landfill gas flares reported in Form EI-CP3, Emission Inventory-Criteria Pollutants-Project Emission Increase.

Please direct all PTC Application content questions to Basil Tupyi, Holladay Engineering Company, at 208.642.3304.

Sincerely,

Alan Scharbrough

Landfill Supervisor

Enclosures:

PTC Application

Olam Schanburg

Payment for Regulatory Fees

copies: Payette County Board of County Commissioners

Mike Holladay, Holladay Engineering

From: Kevin.Schilling@deq.idaho.gov Sent: Wednesday, May 07, 2008 7:12 AM

To: basil@holladayengineering.com

Subject: RE: Permit To Construct Application, Clay Peak Municipal Solid Waste

Landfill Basil.

From our discussions, it is my understanding that this project involves permitting several additional flares that are essentially identical to those previously permitted. Emissions of the existing flares were below modeling thresholds for all criteria pollutants and SCREEN3 modeling easily demonstrated compliance with those Toxic Air Pollutants (TAPs) having emissions over the Emissions Screening Levels (ELs). Because of the simplicity of this project, DEQ modeling staff will perform the air impact analyses required for the permit application. If compliance cannot be demonstrated through DEQ's SCREEN3 analyses, because of changes in emissions or configuration of the flares, the application will be determined incomplete and it will be the applicant's responsibility to perform refined modeling that demonstrates compliance with the applicable air quality standards.

Please include a copy of this email with the application as documentation of the agreement for DEQ to perform the required modeling analyses in support of the permit application.

Contact me if you have any questions or concerns.

Kevin Schilling Stationary Source Air Modeling Coordinator Idaho Department of Environmental Quality 208 373-0112

From: basil [mailto:basil@holladayengineering.com]

Sent: Thu 4/24/2008 12:24 PM

To: Kevin Schilling

Subject: RE: Permit To Construct Application, Clay Peak Municipal Solid Waste Landfill

Kevin,

Just checking on the status of your air quality modeling efforts for the Clay Peak Municipal Solid Waste Landfill. Please call me at 208.642.3304 if you have any questions.

Thank you for your support.

Basil

From: Kevin.Schilling@deq.idaho.gov [mailto:Kevin.Schilling@deq.idaho.gov]

Sent: Wednesday, April 09, 2008 4:03 PM

To: basil@holladayengineering.com

Subject: RE: Permit To Construct Application, Clay Peak Municipal Solid Waste Landfill

Basil,

Based on the previous permitting efforts (I found the previous modeling memo), there should be no problem with permitting this. I look into a couple more things and get back to you.

Kevin

From: basil [mailto:basil@holladayengineering.com]

Sent: Tuesday, April 08, 2008 1:02 PM

To: Kevin Schilling

Subject: Permit To Construct Application, Clay Peak Municipal Solid Waste Landfill

Kevin,

I would like your comments on the attached draft Permit To Construct Application for the Clay Peak Landfill before formal transmittal is made to DEQ. Do the forms have sufficient information for you to complete the air modeling analyses? Note that emission rates (Forms El CP 1-4) and modeling data (Forms MI 1-4) are the same as submitted for the previous air quality permit. Please let me know if any additional information is needed, otherwise the county will formally transmit the forms to your office for official review and processing.

Thank you for your support.

Basil Tupyi, PE

Holladay Engineering Co 32 North Main Street Payette, Idaho 83661 208/642-3304 208/642-2159 (fax)

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DEQ AIR QUALITY PROGRAM 1410 N. Hilton, Boise, ID 83706 For assistance, call the Air Permit Hotline – 1-877-5PERMIT

PERMIT TO CONSTRUCT APPLICATION

Revision 3 04/03/07

c	OMPANY	NAME, FACILITY NAME, AND FACILITY ID NUMBE	IR							
1. Compan	y Name	Payette County								
2. Facility	Name	Clay Peak Municipal Solid 3. Facility ID No. 075- Waste Landfill	0009							
	Brief Project Description - Install/permit additional gas flares for Landfill Cell No. I. Sentence or less									
		PERMIT APPLICATION TYPE								
=	,	New Source at Existing Facility Unpermitted Existing So	ource							
		Source: Permit No.: P-020034 Date Issued: February 27, 2004 orcement Action: Case No.:								
6. Mind		Major PTC								
O. [2] WILL		FORMS INCLUDED								
Included	N/A	Forms	DEQ							
			Verify							
		Form GI – Facility Information								
\boxtimes		Form EU0 – Emissions Units General								
	\boxtimes	Form EU1 - Industrial Engine Information Please Specify number of forms attached:								
	\boxtimes	Form EU2 - Nonmetallic Mineral Processing Plants Please Specify number of forms attached:								
	\boxtimes	Form EU3 - Spray Paint Booth Information Please Specify number of forms attached:								
	\boxtimes	Form EU4 - Cooling Tower Information Please Specify number of forms attached:								
	\boxtimes	Form EU5 – Boiler Information Please Specify number of forms attached:								
	\boxtimes	Form HMAP – Hot Mix Asphalt Plant Please Specify number of forms attached:								
		Form CBP - Concrete Batch Plant Please Specify number of forms attached:								
	\boxtimes	Form BCE - Baghouses Control Equipment								
	\boxtimes	Form SCE - Scrubbers Control Equipment								
		Forms EI-CP1 - EI-CP4 - Emissions Inventory- criteria pollutants (Excel workbook, all 4 worksheets)								
\boxtimes		PP – Plot Plan								
	\boxtimes	Forms MI1 – MI4 – Modeling (Excel workbook, all 4 worksheets)								
\boxtimes		Form FRA – Federal Regulation Applicability								

DEQ USE ONLY
Date Received
Project Number
•
Payment / Fees Included?
Yes No
169 🗀 110 🗀
Check Number
Check Number



Revision 3 03/26/07

Please see instructions on page 2 before filling out the form.

All information is required. If information is missing, the application will not be processed.

	IDENTIFICATION
1. Company Name	Payette County
2. Facility Name (if different than #1)	Clay Peak Municipal Solid Waste Landfill
3. Facility I.D. No.	075-00009
4. Brief Project Description:	install additional gas flares in Landfill Cell No. I
	FACILITY INFORMATION
5. Owned/operated by: (√if applicable)	Federal government County government State government City government
6. Primary Facility Permit Contact Person/Title	Alan Scharbrough / Landfill Supervisor
7. Telephone Number and Email Address	208.642.6036 ascharbrough@payettecounty.org
8. Alternate Facility Contact Person/Title	Patti Nitz / Landfill Administrative Assistant
9. Telephone Number and Email Address	208.642.6036 pnitz@payettecounty.org
10. Address to which permit should be sent	Payette County, 2560 Highway 52
11. City/State/Zip	Payette, Idaho 83661
12. Equipment Location Address (if different than #10)	
13. City/State/Zip	
14. Is the Equipment Portable?	☐ Yes ☐ No
15. SIC Code(s) and NAISC Code	Primary SIC: 4953 Secondary SIC (if any): NAICS: 562212
16. Brief Business Description and Principal Product	Municipal Solid Waste Disposal and Waste Recycling Facility
17. Identify any adjacent or contiguous facility that this company owns and/or operates	
	PERMIT APPLICATION TYPE
18. Specify Reason for Application	 New Facility New Source at Existing Facility Modify Existing Source: Permit No.:P-020034 Date Issued: February 27, 2004 Permit Revision Required by Enforcement Action: Case No.:
	CERTIFICATION
IN ACCORDANCE WITH IDAPA 58.01.01.123 (I AFTER REASONABLE INQUIRY	RULES FOR THE CONTROL OF AIR POLLUTION IN IDAHO), I CERTIFY BASED ON INFORMATION AND BELIEF FORMED, THE STATEMENTS AND INFORMATION IN THE DOCUMENT ARE TRUE, ACCURATE, AND COMPLETE.
19. Responsible Official's Name/Title	Marc Shigeta, Chairman of the Board of County Commissioners
20. RESPONSIBLE OFFICIAL SIGNATU	JRE / Date: April 12, 2008
21. Check here to indicate you would	d like to review a draft permit prior to final issuance.



Revision 3 03/27/07

riease see instructions on pay	e z belole	ming out in	C IVIIII.									
			IDENTIFICAT	ION	100							
Company Name:		Facility i	Name:			Facility ID No:						
Payette County		Clay Pe	ak Municipal S	Solid Waste La	andfill	075-00009						
Brief Project Description:		Install/pe	ermit additiona	al landfill gas f	lares for l	Landfill Cell No. I						
EM	ISSIONS	UNIT (PROC	CESS) IDENT	IFICATION &	DESCR	IPTION						
1. Emissions Unit (EU) Name:	LANDF	ILL GAS FLAR	E									
2. EU ID Number:	SE FLA	ARE 1.1										
3. EU Type:		lew Source ⊠ Unpermitted Existing Source //odification to a Permitted Source Previous Permit #:P-020034 Date Issued: February 27,2004										
4. Manufacturer:	4. Manufacturer: LANDFILL SERVICES CORPORATION											
5. Model:	MODEL NO. CF-5											
6. Maximum Capacity:	Maximum Capacity: 30 CFM											
7. Date of Construction: January 2007												
8. Date of Modification (if any)												
9. Is this a Controlled Emission Unit?	^y ⊠ No	Yes If Yes, complete the following section. If No, go to line 18.										
		EMISSION	IS CONTROL	. EQUIPMEN	T	Committee and the second						
10. Control Equipment Name and ID:			1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1									
11. Date of Installation:			12. Date of Mod	dification (if any):								
13. Manufacturer and Model Number:												
14. ID(s) of Emission Unit Controlled:												
15. Is operating schedule different than units(s) involved?	n emission	☐ Yes ☐] No									
16. Does the manufacturer guarantee t efficiency of the control equipment?	the control	□ Yes □ No (If Yes, attach and label manufacturer guarantee)										
emolority of the control equipment:				Pollutant Cont	rolled							
	PM	PM10	SO ₂	NOx	Voc	; co						
Control Efficiency												
17. If manufacturer's data is not availab	ole, attach a	separate sheet	of paper to provi	de the control eq	uipment de	sign specifications and performance data						
to support the above mentioned contro	l efficiency.											
EMISSIO	N UNIT C	PERATING	SCHEDULE	(hours/day, l	hours/ye	ar, or other)						
18. Actual Operation	24 HOUR	S PER DAY, 7	DAYS PER WEE	EK, 52 WKS PER	YEAR							
19. Maximum Operation	24 HOUR	S PER DAY, 7	DAYS PER WEE	EK, 52 WKS PER	YEAR							
		R	QUESTED L	IMITS								
20. Are you requesting any permit lim	nits?	Yes 🛛 l	No (If Yes, ched	ck all that apply b	elow)							
☐ Operation Hour Limit(s):												
☐ Production Limit(s):												
☐ Material Usage Limit(s):												
☐ Limits Based on Stack Testing	g Ple	Please attach all relevant stack testing summary reports										
☐ Other:						A CONTRACTOR OF THE CONTRACTOR						
21. Rationale for Requesting the Limit	it(s):											



Revision 3 03/27/07

			IDENTIFICAT	TION							
Company Name:		Facility N	Name:			Facility ID No:					
Payette County		Clay Pea	ak Municipal S	Solid Waste La	andfill	075-00009					
Brief Project Description:		Install/pe	ermit addition	al landfill gas f	flares for	Landfill Cell No. I					
EMISS	IONS U	NIT (PROC	CESS) IDENT	IFICATION &	DESCR	RIPTION					
1. Emissions Unit (EU) Name:	LANDFII	LL GAS FLAR	E								
2. EU ID Number:	SE FLAF	RE 1.2									
3. EU Type:	⊠ New ☐ Modif	Source									
4. Manufacturer:	LANDFIL	L SERVICES	CORPORATIO	N							
5. Model:	MODEL NO. CF-5										
6. Maximum Capacity: 30 CFM											
7. Date of Construction:	TO BE I	NSTALLED IN	2008								
8. Date of Modification (if any)	N/A										
9. Is this a Controlled Emission Unit?	⊠ No	☐ Yes If Ye	s, complete the f	ollowing section.	lf No, go t	o line 18.					
		EMISSION	IS CONTROL	. EQUIPMEN	II e e e e e e e e e						
10. Control Equipment Name and ID:											
11. Date of Installation:		12. Date of Modification (if any):									
13. Manufacturer and Model Number:											
14. ID(s) of Emission Unit Controlled:											
15. Is operating schedule different than em units(s) involved?	ission	☐ Yes ☐] No								
16. Does the manufacturer guarantee the of efficiency of the control equipment?	control	Yes No (If Yes, attach and label manufacturer guarantee)									
Smoothey of the control equipment.		Pollutant Controlled									
	PM	PM10	SO ₂	NOx	VO	С					
Control Efficiency											
17. If manufacturer's data is not available,	attach a se	eparate sheet	of paper to provi	de the control eq	uipment d	esign specifications and performance data					
to support the above mentioned control eff	iciency.										
EMISSION I	JNIT OF	PERATING	SCHEDULE	(hours/day, l	hours/ye	ear, or other)					
18. Actual Operation 2	4 HOURS	PER DAY, 7	DAYS PER WEE	EK, 52 WKS PER	YEAR						
19. Maximum Operation 2	4 HOURS	PER DAY, 7	DAYS PER WEE	EK, 52 WKS PER	YEAR						
		RE	QUESTED L	.IMITS							
20. Are you requesting any permit limits?	, 🗆 A	′es ⊠ N	lo (If Yes, ched	ck all that apply b	elow)						
☐ Operation Hour Limit(s):											
☐ Production Limit(s):											
☐ Material Usage Limit(s):											
☐ Limits Based on Stack Testing	Pleas	Please attach all relevant stack testing summary reports									
Other:						A A A A A A A A A A A A A A A A A A A					
21. Rationale for Requesting the Limit(s)											



DEQ AIR QUALITY PROGRAM 1410 N. Hilton, Boise, ID 83706 For assistance, call the Air Permit Hotline – 1-877-5PERMIT

PERMIT TO CONSTRUCT APPLICATION

Revision 3 03/27/07

riease see instructions on pag	G Z DGIOIG	ming out th	G IOIIII.								
			DENTIFICAT	ION							
Company Name:		Facility I	Name:		Fa	cility ID No:					
Payette County		Clay Pea	ak Municipal S	Solid Waste La	andfill 07	5-00009					
Brief Project Description:		Install/pe	ermit additiona	al landfill gas f	lares for Lar	ndfill Cell No. I					
EM	ISSIONS I	JNIT (PROC	CESS) IDENT	IFICATION &	DESCRIPT	TION					
Emissions Unit (EU) Name:	LANDF	ILL GAS FLAR	E								
2. EU ID Number:	SW FL	ARE 1.1									
3. EU Type:		w Source ⊠ Unpermitted Existing Source diffication to a Permitted Source Previous Permit #:P-020034 Date Issued: February 27,2004									
4. Manufacturer: LANDFILL SERVICES CORPORATION											
5. Model: MODEL NO. CF-5											
6. Maximum Capacity: 30 CFM											
7. Date of Construction: JANUARY 2007											
8. Date of Modification (if any)	N/A										
9. Is this a Controlled Emission Unit?	[™] ⊠ No	☐ Yes If Ye	s, complete the f	ollowing section.	If No, go to lin	e 18.					
		EMISSION	IS CONTROL	. EQUIPMEN	T						
10. Control Equipment Name and ID:											
11. Date of Installation:			12. Date of Mod	dification (if any):							
13. Manufacturer and Model Number:											
14. ID(s) of Emission Unit Controlled:											
15. Is operating schedule different than units(s) involved?		☐ Yes ☐] No								
16. Does the manufacturer guarantee the efficiency of the control equipment?	he control	☐ Yes ☐ No (If Yes, attach and label manufacturer guarantee)									
			1	Pollutant Cont	rolled						
	PM	PM10	SO ₂	NOx	voc	со					
Control Efficiency											
17. If manufacturer's data is not available to support the above mentioned contro	•	separate sheet	of paper to provi	de the control eq	uipment desig	n specifications and performance data					
		PERATING	SCHEDIII E	(hours/day, l	hours/vear	or other)					
18. Actual Operation		1,440,520,614,000,000,000,000		K, 52 WKS PER							
19. Maximum Operation				K, 52 WKS PER							
- Parameter - Para	12001		QUESTEDL	sono compressor and a second second							
20. Are you requesting any permit lin	nits?			ck all that apply b	elow)						
☐ Operation Hour Limit(s):						A CONTRACTOR OF THE CONTRACTOR					
☐ Production Limit(s):											
☐ Material Usage Limit(s):						A CONTRACTOR OF THE CONTRACTOR					
☐ Limits Based on Stack Testing	g Plea	ase attach all re	elevant stack test	ing summary rep	orts						
☐ Other:						- SAMA-T					
21. Rationale for Requesting the Lim	it(s):					A STOCK OF THE STATE OF THE STA					



DEQ AIR QUALITY PROGRAM 1410 N. Hilton, Boise, ID 83706 For assistance, call the Air Permit Hotline - 1-877-5PERMIT

PERMIT TO CONSTRUCT APPLICATION Revision 3 4/5/2007

Please see instructions on page 2 before filling out the form.

Company Name: PAYETTE COUNTY

Facility Name: Clay Peak Municipal Solid Waste Landfill

Facility ID No.: 075-00009

Brief Project Description: Install/permit additional landfill gas flares for Landfill Cell No. I

Bherri Toject Bescription	SUM	MARY OF F	ACILITY WI	DE EMISSIC	ON RATES F	OR CRITER	RIA POLLUT	ANTS - PO	INT SOURC	ES	The second of th	-gayngo ay garasan Kalabanas - Makkas	
1.	2.			~~		N.		3.					
Emissions units	Stack ID	lb/hr	l ₁₀ T/yr	SO ₂		NO _X		CO lb/hr T/yr		VOC lb/hr T/yr		Le	
		10/111	Tyr III	ID/Hr	Point So	urce(s)	T/yr	ID/III	1/yr	ID/Nr	1/yr	lb/hr	T/yr
landfill gas flare	NW Flr 1.1	0.02	0.07	0.01	0.03	0.04	0.16	0.02	0.07		et grent om er general for et freshe e		
landfill gas flare	NW Flr 1.2	0.02	0.07	0.01	0.03	0.04	0.16	0.02	0.07				
landfill gas flare	NE Flr 1.1	0.02	0.07	0.01	0.03	0.04	0.16	0.02	0.07				·
landfill gas flare	NE Flr 1.2	0.02	0.07	0.01	0.03	0.04	0.16	0.02	0.07				
	40 MARIA												
	and the second												
					:								
								,					
Total		0.06	0.27	0.03	0.12	0.14	0.63	0.06	0.28				

	1410 N. Hilton, For assistance,	Q AIR QUALITY PROGRAM 0 N. Hilton, Boise, ID 83706 assistance, call the Permit Hotline - 1-877-5PERMIT Please see instructions on page 2 before filling out the form.													
			F	Please see instr	ructions on pag	ge 2 before filling	g out the form.								
Company Name:	PAYETTE COL	INTY													
Facility Name:		Clay Peak Municipal Solid Waste Landfill													
Facility ID No.:		075-00009													
Brief Project Description:	Install/permit ac	Iditional landfill	gas flares for	Landfill Cell No	o. I										
	SUM	MARY OF F	ACILITY W	IDE EMISSI	ON RATES	FOR CRITE	RIA POLLU	TANTS - PO	INT SOURC	ES	S 6-17818				
1.	2.		25		***************************************			3.	reprine acas, comment to b	entrant and and the contract of the	n fan it dael de fûn it de komme witte se				
		₽N	10	S	SO ₂		O _X	CO		СО		V	oc	Le	ad
Emissions units	Stack ID	lb/hr	T/yr	lb/hr	T/vr	lb/hr	T/vr	lb/hr	T/vr	lb/hr	T/vr	lb/hr	T/yr		
	uldív dydát se		THE FAIL			ource(s)		1	1.0						

Instructions for Form El-CP1

This form is designed to provide the permit writer and air quality modeler with a summary of the criteria pollutant emissions of each emission unit/point located at the facility. This information may be used by the IDEQ to perform an air quality analysis or to review an air quality analysis submitted with the permit application or requested by the IDEQ.

Please fill in the same company name, facility name, facility ID number, and brief project description as on form CS in the boxes provided. This is useful in case any pages of the application get separated.

- 1. Provide the name of all emission units at the facility. This name must match names on other submittals to IDEQ and within this application.
- 2. Provide the identification number for the stack which the emission unit exits.
- 3. Provide the emission rate in pounds per hour and tons per year for all criteria pollutants emitted by this point source. In this form, emission rates for a point source are the maximum allowable emissions for both short term (pounds per hour) and long term (tons per year). These emission rates are its permitted limits (if any). Otherwise, potential to emit should be shown. Potential to emit is defined as uncontrolled emissions at maximum design or achievable capacity (whichever is higher) and year-round continuous operation (8760 hours per year) if there are no federally enforceable permit limits on the emission point. If the emission point has or will have control equipment or some other proposed permit limitation such as hours of operation or material usage, the control efficiency or proposed permit limit(s) may be used in calculating potential to emit.

NOTE: Attach a separate sheet of paper, or electronic file, to provide additional documentation on the development of the emission rates. Documentation can include emissions factors, throughput, and example calculations.



DEQ AIR QUALITY PROGRAM 1410 N. Hilton, Boise, ID 83706 For assistance, call the Air Permit Hotline - 1-877-5PERMIT PERMIT TO CONSTRUCT APPLICATION Revision 2 4/5/2007

Please see instructions on page 2 before filling out the form.

Company Name: PAYETTE COUNTY Facility Name:

Clay Peak Municipal Solid Waste Landfill

Facility ID No.:

075-00009

Brief Project Description: Install/permit additional landfill gas flares for Landfill Cell No. I.

Brief Project Description	: Install/permit addit	ional landfill gas	s flares for Lan	CTILI CELI NO. 1.	LDATECES	NO COLUMN	A DOUBLITA	NITO FILOI	TIVE COLLE	050		and an even a second and the sec	A G. (18) P. (19) (19) (19) (19) (19)
7/30 3 5 5 5 5 5 5 5 5 5	2.	ARY OF FAC	PILLI Y WIDI	E EMISSION	N KAIES FC	K CRITERI	A POLLUTA 3		TIVE SOUR	CES			
	۵.	PM	110	SC),	NO _x		CO		l voc		l Le	ad
Fugitive Source Name	Fugitive ID	lb/hr	T/yr	lb/hr	T/yr	lb/hr	T/yr	lb/hr	T/yr	lb/hr	T/yr	lb/hr	T/yr
Britania Papar Maraka di alia sa manana di Malaya da mana di alia da manana di Alia da manana di Alia da Maraka di Malay	etang menterikan beraikan di		<u> </u>	in a second second	Fugitive S	ource(s)	gerte Parker in ber 1. Se	and the second	and the second second	100 m Di Antonio Minamano no	. 67 Andrews - Land	า เราะสารแบบ และเกล่าเกล่า	
Heavy Equipment Operation	Hvy Equip	0.71	1.11	3.71	5.79	36.69	57.24	2.68	4.18				
Landfill Road Dust	Road-1	2.94	4.59										
Earthwork Activity	Dirt - 1	36.92	57.60										
Wood Chip/Grinding	Chip - 1	0.45	0.71	0.80	1.25	5.74	8.95	0.91	1.42				
Rock and Compost Screening	SCR - 1	0.03	0.05	0.21	0.32	1.94	3.03	0.14	0.22				
Rock and Compost Screening	SCR - 2	0.03	0.05	0.21	0.32	1.94	3.03	0.14	0.22				
					,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,								
												1	
												-	
Total		41.09	64.10	4.93	7.69	46.31	72.24	3.87	6.03				

Fugitive Source Name	Fugitive ID	lb/hr	T/yr	lb/hr	T/yr	lb/hr	T/yr	lb/hr	T/yr	lb/hr	T/yr	lb/hr	T/yr	
		PN	/I ₁₀	5	O ₂	I NO	O _X	С	0	V	OC	Le	ad	
1.	2.							3.						
	SUMM	ARY OF FA	CILITY WIE	DE EMISSIO	N RATES F	OR CRITERI	A POLLUT	ANTS - FUGI	TIVE SOUP	RCES				
Brief Project Description:														
Facility ID No.:		075-00009												
Facility Name:		Clay Peak Municipal Solid Waste Landfill												
Company Name:	PAYETTE COUNT	Υ												
			F	Please see insti	ructions on pag	ge 2 before filling	g out the form.							
	1410 N. Hilton, Boi For assistance, cal Air Permit Hotline	ll the		Revisior 4/5/20										
THE THE PARTY OF	DEQ AIR QUALIT								P	PERMIT TO	CONSTR	RUCT APPL	ICATION	

Instructions for Form EI-CP2

This form is designed to provide the permit writer and air quality modeler with a summary of the criteria pollutant emissions of each emission unit/point located at the facility. This information may be used by the IDEQ to perform an air quality analysis or to review an air quality analysis submitted with the permit application or requested by the IDEQ.

Please fill in the same company name, facility ID number, and brief project description as on form CS in the boxes provided. This is useful in case any pages of the application get separated.

Fugitive emissions are those emissions that cannot reasonably be made to pass through a stack or vent or equivalent opening. Examples include coal piles, unpaved roads, etc. Fugitive emission sources at your plant must be included in this form.

- 1. Provide the name of all fugitive sources at the facility. This name must match names on other submittals to IDEQ and within this application.
- 2. Provide the identification number for the fugitive source. This ID number should match ID numbers on other submittals to IDEQ and within this application.
- 3. Provide the emission rate in pounds per hour and tons per year for all criteria pollutants emitted by this fugitive source. In this form, emission rates for a fugitive source are the maximum allowable emissions for both short term (pounds per hour) and long term (tons per year). These emission rates are its permitted limits (if any). Otherwise, potential to emit should be shown. Potential to emit is defined as uncontrolled emissions at maximum design or achievable capacity (whichever is higher) and year-round continuous operation (8760 hours per year) if there are no federally enforceable permit limits on the emission point. If the emission point has or will have control equipment or some other proposed permit limitation such as hours of operation or material usage, then, the control efficiency or proposed permit limit(s) may be used in calculating potential to emit.

NOTE: Attach a separate sheet of paper, or electronic file, to provide additional documentation on the development of the emission rates. Documentation can include emissions factors, throughput, and example calculations.



Total

DEQ AIR QUALITY PROGRAM 1410 N. Hilton, Boise, ID 83706 For assistance, call the Air Permit Hotline - 1-877-5PERMIT

0.05

0.20

0.02

0.09

0.11

0.47

0.05

0.21

PERMIT TO CONSTRUCT APPLICATION Revision 3 4/5/2007

Please see instructions on page 2 before filling out the form.														
Company Name:														
Facility Name:						Clay Peak Mun		iste Landfill						
Facility ID No.:							075-00009							
Brief Project Description:	Install/permit addit	tional landfill ga	s flares for Lan	dfill Cell No. I										
When the street of the shifting		RY OF EMIS	SIONS INCR	REASE (PRO	POSED PT	E - PREVIO	USLY MOD	ELED PTE)	- POINT SO	URCES	98 2 - LLL <i>A</i> AS			
1.	2.			2				3.						
Emissions units	Stack ID	PN		S			O _X	C			OC		ad	
Emissions units	Stack ID	lb/hr	T/yr	lb/hr	T/yr	lb/hr	T/yr	lb/hr	T/yr	lb/hr	T/yr	lb/hr	T/yr	
landill and floor (a dation and a sixt)	NIA Find 4			n 1995 was 1997 i	Point So	urce(s)	Andrews VANSE							
landfill gas flare (existing permit)	NW Fir 1.1													
landfill gas flare (existing permit)	NW Fir 1.2													
landfill gas flare (existing permit)	NE Fir 1.1											1		
landfill gas flare (existing permit)	NE Fir 1.2									***************************************				
landfill gas flare (new source)	SE Flare 1.1	0.02	0.07	0.01	0.03	0.04	0.16	0.02	0.07					
landfill gas flare (new source)	SE Flare 1.2	0.02	0.07	0.01	0.03	0.04	0.16	0.02	0.07					
landfill gas flare (new source)	SW Flare 1.1	0.02	0.07	0.01	0.03	0.04	0.16	0.02	0.07					
									·					
	-													
													1	

	1410 N. Hilton, Bo For assistance, ca	AIR QUALITY PROGRAM N. Hilton, Boise, ID 83706 Issistance, call the Vermit Hotline - 1-877-5PERMIT Please see instructions on page 2 before filling out the form.												
			F	Please see instr	ructions on pa	ge 2 before fillin	g out the form.							
Company Name:	PAYETTE COUNT	ſΥ				······								
Facility Name:		Clay Peak Municipal Solid Waste Landfill												
Facility ID No.:		075-00009												
Brief Project Description:	Install/permit addit	ional landfill ga	s flares for La	ndfill Cell No. I										
	SUMMAR	Y OF EMISS	SIONS INC	REASE (PR	OPOSED P	TE - PREVIO	USLY MOD	ELED PTE)	- POINT SC	URCES	u engle			
1.	2.							3.					process and second and	
		PN	110	S	O ₂	l N	O _X	1 0	0	V	oc	Lea	ad	
Emissions units	Stack ID	lb/hr	T/yr	lb/hr	T/yr	lb/hr	T/vr	lb/hr	T/vr	lb/hr	T/vr	lb/hr	T/vr	
				Part de Vigilia.	Point S	ource(s)	g Land John S.	NAME OF THE	\$1716g. b. 763		9.54 4.542			

Instructions for Form EI-CP3

This form is designed to provide the permit writer and air quality modeler with a summary of the change in criteria pollutant emissions of each emission unit/point associated with this permit application. This information may be used by the IDEQ to perform an air quality analysis or to review an air quality analysis submitted with the permit application or requested by the IDEQ.

Please fill in the same company name, facility ID number, and brief project description as on form CS in the boxes provided. This is useful in case any pages of the application get separated.

- 1. Provide the name of the emission unit. This name should match names on other submittals to IDEQ and within this application.
- 2. Provide the identification number for the stack which the emission unit exits.
- 3. Provide the increase in emissions in pounds per hour and tons per year for all criteria pollutants emitted by this emission unit. In this form, increase in emissions for an emission unit are the proposed PTE Previously modeled PTE. If the emission point has or will have control equipment or some other proposed permit limitation such as hours of operation or material usage, then, the control efficiency or proposed permit limit(s) may be used in calculating proposed potential to emit.

NOTE: Attach a separate sheet of paper, or electronic file, to provide additional documentation on the development of the emission rates. Documentation can include emissions factors, throughput, and example calculations.



DEQ AIR QUALITY PROGRAM 1410 N. Hilton, Boise, ID 83706 For assistance, call the

PERMIT TO CONSTRUCT APPLICATION

Revision 3

	For assistance, cal		MIT										Revision 3 4/5/2007
			P	lease see instr	uctions on page	e 2 before filling	out the form.						
	PAYETTE COUNT	Υ											
Facility Name:		Clay Peak Municipal Solid Waste Landfill											
Facility ID No.:			075-00009										
Brief Project Description:	Install/permit addit	ional landfill ga	s flares for Lar	idfill Cell No. I			~~~~~					100 110	· · · · · · · · · · · · · · · · · · ·
	SUMMARY	IARY OF EMISSIONS INCREASE (PROPOSED PTE - PREVIOUSLY MODELED PTE) - FUGITIVE SOURCES											
1.	2.		3. Air Pollutant Maximum Change in Emissions Rate (lbs/hr or t/yr)								SELECTION OF THE PROPERTY OF T		
		PI	/I ₁₀	S	O ₂	N	o _x	С	O	V	С	Le	ad
Fugitive Source Name	Fugitive ID	lb/hr	T/yr	lb/hr	T/yr	lb/hr	T/yr	lb/hr	T/yr	lb/hr	T/yr	lb/hr	T/yr
				in Summer Service	Fugitive S	ource(s)			u ar el applé	private i saveni. Distali Austria	iga yang. Alaman aktoria		
No Increase in Fugitive Sources E	xpected												400
												,	
					:								
Total													

	1410 N. Hilton, Bo For assistance, ca Air Permit Hotling	se, ID 83706 I the						P	ERMIT TO	CONSTR	UCT APPL	Revision: 4/5/200
The state of the s	Air Permit Houne	: - 1-0//-3PERIVIII										470/200
	!	F	lease see insti	ructions on pag	e 2 before filling	g out the form.						
Company Name:	PAYETTE COUNT	Υ									-	
Facility Name:					Clay Peak Mur	nicipal Solid W	aste Landfill					
Facility ID No.:			075-00009									
Brief Project Description:	Install/permit addit	onal landfill gas flares for La	ndfill Cell No. I									
	SUMMARY	OF EMISSIONS INCRE	EASE (PRO	POSED PTE	- PREVIOU	SLY MODE	LED PTE) - I	FUGITIVE S	OURCES			
4						;	3.					
1.	2.			Air Pollu	tant Maximu	ım Change	in Emission	s Rate (Ibs	/hr or t/yr)			
		PM ₁₀	s	6O ₂	N	O _X	С	0	V	oc	Le	ad
Fugitive Source Name	Fugitive ID	lb/hr T/yr	lb/hr	T/yr	lb/hr	T/yr	lb/hr	T/yr	lb/hr	T/yr	lb/hr	T/yr
		i de la gracia de la compactica de la co		Fugitive S	Source(s)			Profesional (1971)		in the state of th		

Instructions for Form EI-CP4

This form is designed to provide the permit writer and air quality modeler with a summary of the change in criteria pollutant emissions of each emission unit/point associated with this permit application. This information may be used by the IDEQ to perform an air quality analysis or to review an air quality analysis submitted with the permit application or requested by the IDEQ.

Please fill in the same company name, facility ID Number, and brief project description as on Form CS in the boxes provided. This is useful in case any pages of the application get separated.

- 1. Provide the name of the emission unit. This name should match names on other submittals to IDEQ and within this application.
- 2. Provide the identification number for the fugitive source. This ID should match IDs on other submittals to IDEQ and within this application.
- 3. Provide the increase in emissions in pounds per hour and tons per year for all criteria pollutants emitted by this fugitive source. In this form, increase in emissions for an emission unit are the proposed PTE Previously modeled PTE. If the fugitive source has or will have control equipment or some other proposed permit limitation such as hours of operation or material usage, the control efficiency or proposed permit limit(s) may be used in calculating proposed potential to emit.

NOTE: Attach a separate sheet of paper, or electronic file, to provide additional documentation on the development of the emission rates. Documentation can include emissions factors, throughput, and example calculations.



DEQ AIR QUALITY PROGRAM 1410 N. Hilton, Boise, ID 83706 For assistance, call the Air Permit Hotline - 1-877-5PERMIT

PERMIT TO CONSTRUCT APPLICATION

Revision 3 4/5/2007

Please see instructions on page 2 before filling out the form.

Company Name:	PAYETTE COUNTY	MODELING RESULTS	TO BE PROVIDED BY KI	EVIN SCHILLING, DEQ

Facility Name: Clay Peak Municipal Solid Waste Landfill

Facility ID No.: 075-00009

Brief Project Description: Install/permit additional landfill gas flares for Landfill Cell No. I

Brief Fregor Brookipt			3					
	SUM	MARY OF AIR	IMPACT ANAL	YSIS RESULT	S - CRITERIA PO	DLLUTANTS		
		1.		2.	3.	4.		5.
Criteria Pollutants	Averaging Period	Significant Impact Analysis Results (µg/m3)	Significant Contribution Level (µg/m3)	Full Impact Analysis Results (µg/m3)	Background Concentration (µg/m3)	Total Ambient Impact (µg/m3)	NAAQS (µg/m3)	Percent of NAAQS
PM ₁₀	24-hour		5				150	
1 14(10	Annual		1				50	
	3-hr		25				1300	
SO ₂	24-hr		5				365	
	Annual		1				80	
NO ₂	Annual		1				100	
СО	1-hr		2000				10000	
	8-hr		500				40000	



DEQ AIR QUALITY PROGRAM 1410 N. Hilton, Boise, ID 83706 For assistance, call the Air Permit Hotline - 1-877-5PERMIT

PERMIT TO CONSTRUCT APPLICATION

Revision 3 3/27/2007

Please see instructions on page 2 before filling out the form.								
Company Name:	PAYETTE COUNTY							
Facility Name:	Clay Peak Municipal Solid Waste Landfill							
Facility ID No.:								
Brief Project Description:	Install/permit additional landfill gas flares for Landfill Cell No. I							

POINT SOURCE STACK PARAMETERS										
1.	2.	3a.	3b.	4.	5.	6.	7.	8.	9.	10.
Emissions units	Stack ID	Latitude	Longitude	Approximate Base Elevation (ft msl)	Stack Height (feet)	Modeled Diameter (ft)	Stack Exit Temperature (K)	Stack Exit Flowrate (acfm)	Stack Exit Velocity (ft/s)	Stack orientation (e.g., horizontal, rain cap)
Point Source(s)										
landfill gas flare (permitted)	NW Flr 1.1	44 ⁰ 04' 05.5" N	116° 51' 47.6" W	2,586.00	12.00		1273 °			vertical
landfill gas flare (permitted)	NW Flr 1.2	44 ⁰ 04' 00.0" N	116° 51' 47.6" W	2,580.00	12.00		1273 °			vertical
landfill gas flare (permitted)	NE Flr 1.1	44 ⁰ 04' 06.9" N	116 ⁰ 51' 39.6" W	2,586.00	12.00		1273 ⁰			vertical
landfill gas flare (permitted)	NE Flr 1.2	44 ⁰ 04' 01.8" N	116° 51' 39.1" W	2,582.00	12.00		1273 ⁰			vertical
landfill gas flare (unpermitted)	SE Flare 1.1	44 ⁰ 03' 55.8" N	116 ⁰ 51' 35.8" W	2,576.00	12.00		1273 ⁰			vertical
landfill gas flare (unpermitted)	SE Flare 1.2	44 ⁰ 03' 57.8" N	116° 51' 48.5" W	2,568.00	12.00		1273 °			vertical
landfill gas flare (unpermitted)	SW Flare 1.1	44° 03' 54.7" N	116° 51' 47.9" W	2,572.00	12.00		1273 °			vertical
	MODELING F	RESULTS TO BI	PROVIDED BY	KEVIN SCHILLING	S, DEQ					

									,	



DEQ AIR QUALITY PROGRAM 1410 N. Hilton, Boise, ID 83706 For assistance, call the

PERMIT TO CONSTRUCT APPLICATION Revision 3

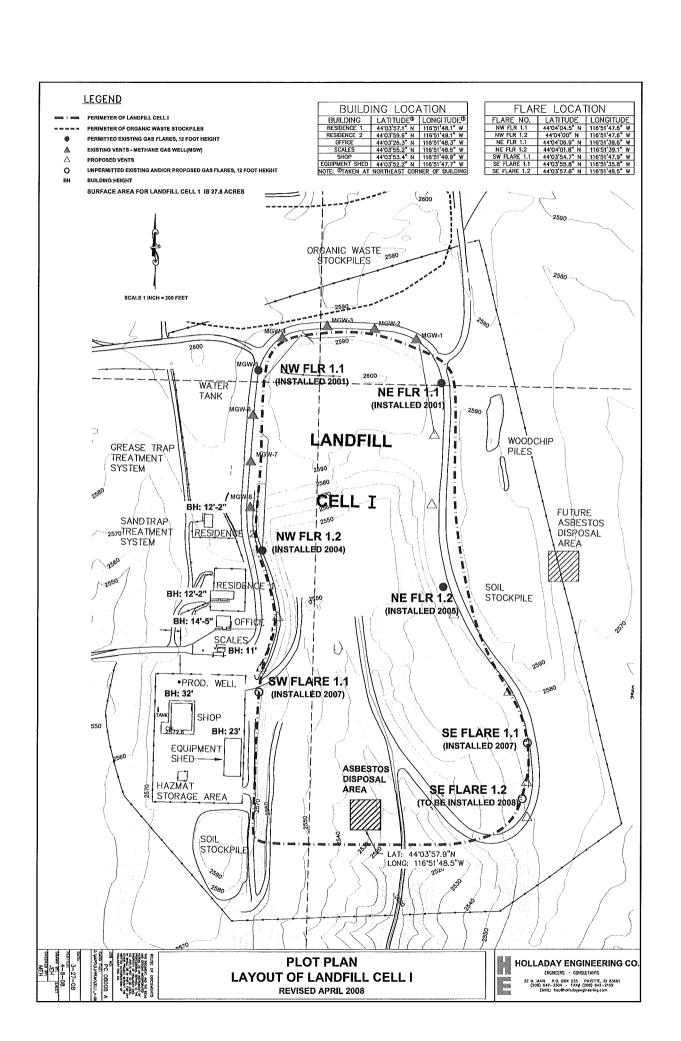
Manager Manage	Air Permit Hot	tline - 1-877-5PE								4/5/2007
		Please	see instruction	ns on page 2	before filling	out the form.				
Company Name:										
Facility Name:										
Facility ID No.:										
Brief Project Description:			FUCITIVE	SOURCE	ARAMETER	<u>.</u>				
Arthur Lander (Lander) and the commence of the second and the seco					2017	and the state of the			<u>. 1</u> 9	
I .	2.	3a.	3b.	4.	5.	6.	7.	8.	9.	10.
Emissions units	Stack ID	UTM Easting (m)	UTM Northing (m)	Base Elevation (msl)	Release Height (msl)	Easterly Length (ft)	Northerly Length (ft)	Angle from North (°)	Initial Vertical Dimension (ft)	Initial Horizontal Dimension (ft)
Area Source(s)										
leavy Equipment Operation	Hvy Equip									
andfill Road Dust, Equip Traffic	Road - 1									
Earthwork Activity	Dirt - 1									
Vood Chip/Grinding	Chip - 1									
Rock and Compost Screening	SCR - 1					-				
Rock and Compost Screening	SCR-2									
	MODELING RE	ESULTS TO BE I	PROVIDED BY K	EVIN SCHILLIN	NG, DEQ					
Volume Source(s)										
		l	<u> </u>							



DEQ AIR QUALITY PROGRAM 1410 N. Hilton, Boise, ID 83706 For assistance, call the

PERMIT TO CONSTRUCT APPLICATION Revision 3 4/5/2007

WALL TO SERVICE OF THE SERVICE OF TH	Air Permit F	lotline - 1-87	77-5PERMIT			
		Please s	see instruction	s on page 2 l	before filling out the for	m.
Company Name:	PAYETTE C	OUNTY				
Facility Name:				Clay	Peak Municipal Solid Was	te Landfill
Facility ID No.:		***************************************			075-00009	
Brief Project Description:	Install/permit	t additional la	andfill gas flares	for Landfill Cell	No. I	
		В	UILDING AND	STRUCTUE	RE INFORMATION	
1.	2.	3.	4.	5.	6.	7.
Building ID Number	Length (ft)	Width (ft)	Base Elevation (m)	Building Height (m)	Number of Tiers	Description/Comments
	north-south	west-east	mean sea level	(feet)		
Residence - 1	140.00	105.00	2577.00	12'-2"	1	
Residence - 2	40.00	28.00	2582.00	12'- 2"	1	
Office	40.00	45.00	2574.00	14'-5"	1	
Scales	12.00	25.00	2574.00	11'	1	
Shop	90.00	70.00	2572.00	32'	1	
Equipment Shed	125.00	55.00	2575.00	23'	1	
see plot plan for building lo	I cation with lat	l itude and lon	l ngitude readings			
***************************************		Y				





Revision 3 03/26/07

IDENTIFICATION									
Company Name:	Facility Name:			Facility ID No:					
Payette County	Clay Peak Mur	nicipal Solid Waste Landt	ill .	075-00009					
Brief Project Description: Install/permit additi	onal gas flares fo	or Landfill Cell No. 1							
APPLIC	CABILITY DETE	RMINATION							
1. Will this project be subject to 1990 CAA Section 112(g)?		⊠ NO	☐ YES	S*					
(Case-by-Case MACT)		* If YES, applicant must sub- case MACT determination [l							
Will this project be subject to a New Source Performance Stan (40 CFR part 60)	idard?	⊠ NO	☐ YES	☐ YES*					
(40 CFN part 60)		*If YES, please identify sub-	oart:	_					
Will this project be subject to a MACT (Maximum Achievable Content of the subject to a MACT (Maximum Achievable Content of the subject to a MACT (Maximum Achievable Content of the subject to a MACT (Maximum Achievable Content of the subject to a MACT (Maximum Achievable Content of the subject to a MACT (Maximum Achievable Content of the subject to a MACT (Maximum Achievable Content of the subject to a MACT (Maximum Achievable Content of the subject to a MACT (Maximum Achievable Content of the subject to a MACT (Maximum Achievable Content of the subject to a MACT (Maximum Achievable Content of the subject to a MACT (Maximum Achievable Content of the subject to a MACT (Maximum Achievable Content of the subject of the subject to a MACT (Maximum Achievable Content of the subject of the sub	Control <u>T</u> echnology)	⊠ NO	☐ YES	3 *					
(40 CFR part 63)		*If YES, please identify sub-	oart:	-					
THIS ONLY APPLIES IF THE PROJECT EMITS A HAZARDOUS AIR POLLU	TANT								
4. Will this project be subject to a NESHAP (National Emission S	tandards for	⊠ NO	☐ YES	S*					
Hazardous Air Pollutants) regulation? (40 CFR part 61)		*If YES, please identify sub-	oart:	-					
5. Will this project be subject to PSD (Prevention of Significant D. (40 CFR section 52.21)	eterioration)?	⊠ NO	☐ YES	3					
Was netting done for this project to avoid PSD?		⊠ NO	☐ YES*						
o. was fielding dolle for this project to avoid F5D?		*If YES, please attach netting	g calculation	s					
IF YOU ARE UNSURE HOW TO ANSWER ANY	OF THESE QUE 1-877-5PERMI		PERMIT H	OTLINE AT					